WHAT IS CLAIMED IS:

1   1.   A telecommunications system, comprising:

2   a packet switched network;

3   one or more telephony devices coupled to said packet switched

4   network, said one or more telephony devices configured to communicate

5   using one or more coding algorithms; and

6   a bandwidth allocation server configured to cause a

7   renegotiation of which of said coding algorithms said one or more telephony

8   devices communicates while said one or more telephony devices are

9   communicating using a predetermined coding algorithm

10   2.   A telecommunications system in accordance with claim 1, said

11   packet switched network being H.323 compatible.

1   3.   A telecommunications system in accordance with claim 1, said

2   bandwidth allocation server configured to initiate said renegotiation if one or

3   more existing connections have a QoS level which may be altered.

1   4.   A telecommunications system in accordance with claim 1, said

2   bandwidth allocation server configured to initiate said renegotiation if a level

3   of data traffic exceeds a predetermined threshold.

1   5.   A method for operating a telecommunication system,

2   comprising:

3   monitoring network usage; and

4   changing codec speed for one or more ongoing connections

5   based on said monitoring network usage.

1   6.   A method according to claim 5, including determining whether

2   an existing connection has a lower quality of service (QoS) than

3   another connection, and changing said codec speed for said existing

4   connection responsive to said determining.

7.   A method according to claim 5, including determining whether
data traffic on said network has exceeded a predetermined threshold.

8.   A telecommunications device, comprising:
means for establishing a connection with another telecommunications
device using a first coding algorithm; and
means for changing said communication from said first coding
algorithm to a second coding algorithm.

9.   A telecommunications device according to claim 8, including
means for directing said another telecommunications device to
renegotiate coding algorithm from said first to said second coding
algorithm.

10.   A telecommunications device according to claim 8, said
changing means including means for monitoring network usage.

11.   A telecommunications device according to claim 10, wherein
said monitoring means monitors network usage for levels of data
traffic.

12.   A telecommunications device according to claim 10, wherein
said monitoring means monitors network usage for actual and
requested quality of service (QoS) levels.

13.   A telecommunications device according to claim 12, wherein
said changing means changes from said first coding algorithm to said
second coding algorithm if said connection has a lower QoS than
another connection.